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November 22, 2002

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Respectfully submitted,

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CORRECTED FILING RECEIPT



Date Mailed: 09/18/2002

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Applicant(s)

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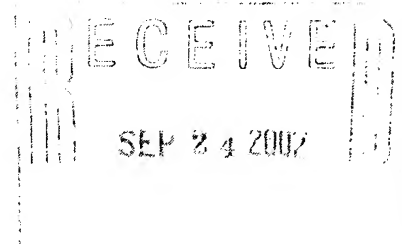
Non-Publication Request: No

Early Publication Request: No

Title

Process for conditioning Slags, and installation for this process.
~~Method for conditioning slag with the addition of metallurgical residual materials and an installation for the same~~

Preliminary Class



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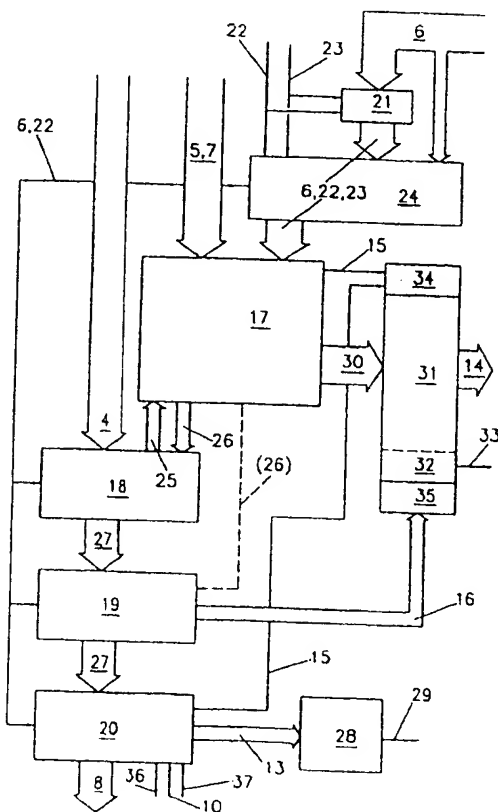
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(54) Title: METHOD FOR CONDITIONING SLAG WITH THE ADDITION OF METALLURGICAL RESIDUAL MATERIALS AND AN INSTALLATION FOR THE SAME

(54) Bezeichnung: VERFAHREN ZUR SCHLACKENKONDITIONIERUNG MIT EINBRINGEN VON HÜTTENRESTSTOFFEN SOWIE ANLAGE HIERZU



(57) Abstract: The invention relates to a method for conditioning slag (17) and for recycling metallurgical residual materials in the iron and steel industry, in order to profitably utilise the slag (5, 7) and residual materials (6) which are produced at an iron and steel works. The method consists of the following stages: collecting and treating the liquid slag (5) of at least one tapping of a blast furnace and additional metallurgical slag (7) from a steel works in a slag-conditioning vessel (17); introducing metallurgical residual materials (6), preferably all said materials (6) and slag (25) from a pig-iron pre-treatment (18) into the slag-conditioning vessel; injection blowing reducing agents (23) into the slag-conditioning vessel for finishing the reaction of the added materials; introducing carbon (23) for alloying up the reduced iron from the iron-bearing residual materials (6); mixing the melts (26, 30) contained in the slag-conditioning vessel by injection blowing a circulation gas; heating the melts contained in the slag-conditioning vessel to the desired temperature or maintaining said melts at a specific temperature; adjusting the slag melt (30) contained in the slag-conditioning vessel to a desired composition, by introducing additives (22); tapping the conditioned-slag melt (30) and tapping the iron-bearing melt (26) without slag.

(57) Zusammenfassung: Um die in einem Hüttenwerk anfallenden Schlacken (5, 7) und Reststoffe (6) rentabel zu verwerten, wird bei einem Verfahren zur Schlackenkon-ditionierung (17) und zum Hüttenreststoffrecycling in der Eisenhüttenindustrie wie folgt vorgegangen: Zusammenführen und Behandeln der Schlacke (5) mindestens eines Abstiches eines Hochofens in flüssigem Zustand und von sonstigen

[Fortsetzung auf der nächsten Seite]

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